

Listing of Claims:

Claim 1. (currently amended) An integral photography type apparatus for displaying a three dimensional (3D) image of a reproduced object, the display apparatus comprising:

a passive first array of points and a second array representing a 3D image to be displayed;

the second array having a set of subarrays, each said subarray being associated with a corresponding point of the passive first array, and each said point of each said subarray containing information about a point of the 3D image to be displayed;

a light ray from a point of a subarray to the associated point of the passive array virtually converging to the corresponding point of the 3D image to be displayed; and,

means for controlling the [position of the 3D image with respect to the first and second arrays through the control of the direction of said light rays.] distance between the passive first array and the second array.

Claim 2. (canceled) A 3D display apparatus according to claim 1, comprising means for controlling the distance between the passive first array and the second array.

Claim 3. (previously presented) A 3D display apparatus according to claim 2, wherein the passive first array is moveable and the second array is stationary.

Claim 4. (previously presented) A 3D display apparatus according to claim 1, comprising a manual controller for controlling the position of the 3D image.

Claim 5. (previously presented) A 3D display according to claim 1, comprising means for controlling the position of each point of the passive first array and/or each point of the second array.

Claim 6. (previously presented) A 3D display according to claim 5, wherein said means for controlling the position of each point controls the distance of the reproduced object to the arrays.

Claim 7. (previously presented) A 3D display according to claim 5, wherein said means for controlling the position of each point controls the position of the reproduced object in a direction parallel to the surface of the array representing the object.

Claim 8. (previously presented) A 3D display apparatus according to claim 1, comprising means for controlling the position of the 3D image relative to a position of a viewer.

Claim 9. (previously presented) A 3D display apparatus according to claim 8, comprising sensor means for detecting the position of the viewer's eyes.

Claim 10. (previously presented) A 3D display apparatus according to claim 1, wherein the second array is a flat surface display.

Claim 11. (previously presented) A 3D display apparatus according to claim 1, wherein each point of the passive first array is an aperture of a plate.

Claim 12. (previously presented) A 3D display apparatus according to claim 1, wherein the second array is a liquid crystal display.

Claim 13. (previously presented) A 3D display apparatus according to claim 1, wherein each point of the passive first array is a lens.